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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 6143**  
Mitsuaki OSHIMA et al. : **Docket No. 2000\_1390**  
Serial No. 09/677,420 : **Group Art Unit 2634**  
Filed October 5, 2000 : **Examiner A. Le**  
**COMMUNICATION SYSTEM** :

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**AMENDMENT**

Assistant Commissioner for Patents,  
Washington, D.C.

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Sir:

In response to the Office Action of May 16, 2002, please amend the above-identified U.S. patent application as follows:

**IN THE CLAIMS:**

**Please cancel claims 13-17 without prejudice or disclaimer to the subject matter therein.**

**Also, please add new claims 18-23 as follows.**

**18. A signal transmission apparatus comprising:**

**a modulator operable to assign each of a first data stream and a second data stream to a respective constellation in a vector space diagram to produce modulated signals wherein the number of signal points of the constellation for the first data stream is different from the number of signal points of the constellation for the second data stream; and**

**a transmitter operable to transmit the modulated signals,**

**wherein the first data stream has synchronization data and data for demodulation for demodulating the second data stream.**